## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

## 1-153. (Canceled)

- 154. (Currently Amended) A method of affecting biological processes in vivo comprising:
  - selecting an in vivo biological tissue comprising functional groups X;
- b) providing a composition comprising a synthetic polymer and a drug,
  the <u>synthetic polymer</u> comprising multiple activated groups Y, where Y is reactive with X;
- c) contacting the tissue of step a) with the composition of step b) under conditions where i) X reacts with Y and ii) biological processes in the vicinity of the tissue are affected by the drug.
- 155. (Original) The method of claim 154 wherein the biological tissue has undergone surgical trauma prior to being contacted with the composition of step b), thereby placing the tissue at risk of adhesion formation.
- 156. (Original) The method of claim 155 wherein the adhesion formation is an undesired by-product of abdominal surgery.
- 157. (Original) The method of claim 155 wherein the adhesion formation is an undesired by-product of cardiac surgery.
- 158. (Original) The method of claim 155 wherein the adhesion formation is an undesired by-product of spinal surgery.

- 159. (Original) The method of claim 155 wherein the adhesion formation is an undesired by-product of nasal surgery.
- 160. (Original) The method of claim 155 wherein the adhesion formation is an undesired by-product of throat surgery.
- 161. (Original) The method of claim 155 wherein the adhesion formation is an undesired by-product of breast implant.
- 162. (Original) The method of claim 155 wherein the biological tissue has undergone surgical trauma prior to being contacted with the composition of step b), the surgery being performed to excise tumor.
- 163. (Original) The method of claim 162 wherein the surgery is breast surgery.
- 164. (Original) The method of claim 162 wherein the surgery is breast tumor lumpectomy.
- 165. (Original) The method of claim 162 wherein the surgery is brain surgery.
- $166. \quad \hbox{(Original) The method of claim $162$ wherein the surgery is hepatic resection surgery.}$
- 167. (Original) The method of claim 162 wherein the surgery is colon tumor resection surgery.

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- 168. (Original) The method of claim 162 wherein the surgery is neurosurgical tumor resection.
- 169. (Original) The method of claim 154 wherein tissue is the interior surface of a physiological lumen.
- 170. (Original) The method of claim 169 wherein the tissue is a blood vessel.
- 171. (Original) The method of claim 169 wherein the tissue is a Fallopian tube.
- 172. (Original) The method of claim 169 wherein the tissue has undergone balloon catheterization.
  - 173-240. (Canceled)
- 241. (New) The method of claim 154 wherein the synthetic polymer has 2-12 activated groups.
- 242. (New) The method of claim 154 wherein the activated group comprises an electrophilic site.
- 243. (New) The method of claim 154 wherein the synthetic polymer comprises the formula (polymer backbone)-(Q-Y)<sub>n</sub> wherein Q is a linking group, Y is an activated functional group, and n is an integer of greater than 1, and wherein Q is selected from the group consisting of -G-(CH<sub>2</sub>)<sub>n</sub>- wherein G is O.

- 244. (New) The method of claim 243 wherein the synthetic polymer comprises the formula (polymer backbone)-(D-Q-Y)<sub>n</sub> wherein D is a biodegradable group and is poly(alpha-hydroxy acid).
- 245. (New) The method of claim 154 wherein the synthetic polymer comprises poly(alkyleneoxide.)
- 246. (New) The method of claim 245 wherein the poly(alkyleneoxide) comprises ethylene oxide residues.
- 247. (New) The method of claim 154 wherein the drug is a cell cycle inhibitor.
- 248. (New) The method of claim 247wherein the cell cycle inhibitor is a taxane.
- 249. (New) The method of claim 247 wherein the cell cycle inhibitor is paclitaxel.